REMARKS

After entry of the present Preliminary Amendment, Claims 1 and 13-47 are pending in the present application. Claim 1 has been maintained in the application in order to avoid the possibility of the application having no claims pending at one point in time. The Examiner is authorized to cancel Claim 1. Alternatively, Applicants will file a supplemental preliminary amendment to cancel Claim 1.

Claims 13-47 have been added. These claims have been copied or substantially copied from U.S. Patent No. 6,114,264, a copy of which is being submitted concurrently herewith in an Information Disclosure Statement. (A further Information Disclosure Statement will be filed to make of record all the prior art cited in the parent and grandparent applications.)

Applicants have copied or substantially copied Claims 1-35 of the '264 Patent to preserve their rights under 35 U.S.C. § 135 to provoke an interference. Applicants may submit Rule 607 and 608 papers, as appropriate.

Applicant identifies in Table I below exemplary support in the present application for new Claims 13-47.

TABLE I

New Claims 13-47	Exemplary Support in the Instant Application
13. A neutral gray colored glass composition having a base glass portion comprising:	"there is provided an IR and UV absorbing soda lime silica glass of a neutral tint" (4: 2-3); "base glass" (6:28)
SiO_2 65 to 80 percent by weight Na_2O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight Al_2O_3 0 to 5 percent by weight K_2O 0 to 5 percent by weight	SiO_2 65 to 80 % Na_2O 10 to 20 CaO 5 to 15 MgO 0 to 10 Al_2O_3 0 to 5 K_2O 0 to 5 (6:14-24)
and a colorant portion consisting essentially of:	"the coloring constituents of the present invention: (6; 26-27)
Fe_2O_3 (total iron) 0.30 to 0.70 percent by weight FeO up to 0.16 percent by weight Co_3O_4 3 to 25 PPM Se 0.5 to 10 PPM	"total iron content expressed as Fe_2O_3 ... of from 0.3 to 0.7% by weight" (4:13-14); 0.16 wt. % FeO (Example 9; "from about 3 to 25 ppm of Co_3O_4" (4:16); "0.5 to 10 parts by million (ppm) of Se (4:15-16)
wherein	
the color of the glass is characterized by a dominant wavelength less than 560 nanometers,	"a dominant wavelength less than 560 nm" (4:7-8)
a color purity of no higher than 6 percent and	"a color purity not greater than 6" (4:8-9)
a visible light transmission of 70 percent or greater at a thickness of 4 millimeters.	"in a 4 mm thickness, a visible light transmission of at least 70%" (4:4-5)
14. The composition as in claim 13 wherein	
the direct solar heat transmission is at least 12 percentage points below the visible light	"a direct solar heat transmission at least 12 percentage points below the visible light

transmission.	transmission (4:5-7)
15. The composition as in claim 14 wherein	
the Fe_2O_3 concentration is from 0.45 to 0.65 weight percent,	"preferred compositions include ... 0.45 to 0.65% total iron (as Fe_2O_3)" (9:8-10)
the FeO concentration is from 0.08 to 0.16 weight percent,	Examples 4 and 9 (*see*, Table I)
the Co_3O_4 concentration is from 8 to 20 PPM and	"8 to 20 ppm Co_3O_4" (9:11)
the Se concentration is from 1 to 5 PPM.	"1 to 5 ppm Se" (9:11)
16. The composition of claim 13 wherein	
the color of the glass is characterized by	
a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (*see*, Table I)
a color purity of no higher than 3%.	"color purity ... most preferably no more than 3" (4:9-10)
17. The composition as in claim 13 further including	
additional ultraviolet absorbing material.	"TiO_2 may be added to the glass" (4:20)
18. The composition as in claim 17 wherein	
said ultraviolet absorbing material is titanium dioxide	"TiO_2 may be added to the glass ...
present in an amount up to 1.5 wt. % of the glass composition.	[in the range of] 0 to 1.5 weight percent TiO_2" (4:20-21)
19. The composition as in claim 18 wherein	
said TiO_2 is present in an amount from 0.33 to 1.0 wt. %.	Examples 2 and 10 (Table I)

20. A glass sheet made from the composition as recited in claim 13.	"glass sheets" (7:12)
21. The glass sheet as in claim 20 wherein the sheet has a thickness between 1.7 to 5 mm.	"glass sheets" (7:12) "the glass sheets for windshield use are of a thickness in the range of from about 1.7 mm to about 2.5 mm, while those tempered and used as sidelights or back lights are in the range of about 3 mm to about 5 mm thick" (7:16-20)
22. The glass sheet as in claim 20 wherein the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and a color purity of no higher than 3%.	 Examples 9 and 10 (*see*, Table I) "color purity ... most preferably no more than 3" (4:9-10)
23. A neutral gray colored glass composition having a base glass portion comprising: SiO_2 65 to 80 percent by weight Na_2O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight Al_2O_3 0 to 5 percent by weight K_2O 0 to 5 percent by weight and a colorant portion consisting essentially of: Fe_2O_3 (total iron) 0.30 to 0.70 percent by weight FeO up to 0.16] by weight Co_3O_4 3 to 25 PPM Se 0.5 to 10 PPM NiO up to 50 PPM	"neutral tint" (4:2-3); "base glass" (6:28) SiO_2 65 to 80 % Na_2O 10 to 20 CaO 5 to 15 MgO 0 to 10 Al_2O_3 0 to 5 K_2O 0 to 5 (6:14-24) "coloring constituents" (6:26-27) "total iron content expressed as Fe_2O_3 ... of from 0.3 to 0.7% by weight" (4:13-14); 0.16 wt. % FeO (Example 9; "from about 3 to 25 ppm of Co_3O_4" (4:16); "0.5 to 10 parts by

wherein the color of the glass is characterized by a dominant wavelength in the range of less than 560 nanometers, a color purity of no higher than 6 percent and a visible light transmission of 70 percent or greater at a thickness of 4 millimeters.	million (ppm) of Se (4:15-16);"0 to 50 ppm NiO" (4:20) "a dominant wavelength less than 560 nm" (4:7-8) "a color purity not greater than 6" (4:8-9) "in a 4 mm thickness, a visible light transmission of at lest 70%" (4:4-5)
24. The composition as in claim 23 wherein the direct solar heat transmission is at least 12 percentage points below the visible light transmission.	"a direct solar heat transmission at least 12 percentage points below the visible light transmission (4:5-7)
25. The composition as in claim 23 wherein the Fe_2O_3 concentration is from 0.45 to 0.65 weight percent, the FeO concentration is from 0.08 to 0.16 weight percent, the Co_3O_4 concentration is from 22 to 27 PPM, and the Se concentration is from 1 to 5 PPM.	"preferred compositions include ... 0.45 to 0.65% total iron (as Fe_2O_3)" (9:8-10) Examples 4 and 9 (*see*, Table I) "8 to 20 ppm Co_3O_4" (9:11) "1 to 5 ppm Se" (9:11)
26. The composition of claim 24 wherein the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and	Examples 9 and 10 (*see*, Table I)

a color purity of no higher than 3%.	"color purity ... most preferably no more than 3" (4:9-10)
27. The composition as in claim 23 further including additional ultraviolet absorbing material.	 "TiO_2 may be added to the glass" (4:20)
28. The composition as in claim 27 wherein said ultraviolet absorbing material is titanium dioxide present in an amount up to 1.5 wt. % of the glass composition.	 "TiO_2 may be added to the glass ... [in the range of] 0 to 1.5 weight percent TiO_2" (4:20-21)
29. The composition as in claim 28 wherein said TiO_2 is present in an amount from 0.33 to 1.0 wt. %.	 Examples 2 and 10 (Table I)
30. A glass sheet made from the composition as recited in claim 23.	"glass sheets" (7:12)
31. The glass sheet as in claim 30 wherein the sheet has a thickness between 1.7 to 5 mm.	"glass sheets" (7:12) "the glass sheets for windshield use are of a thickness in the range of from about 1.7 mm to about 2.5 mm, while those tempered and sued as sidelights or backlights are in the range of about 3 mm to about 5 mm thick" (7:16-20).
32. The glass sheet as in claim 30 wherein the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and a color purity of no higher than 3%.	 Examples 9 and 10 (*see*, Table I) "color purity ... most preferably no more than 3: (4:9-10)
33. A neutral gray colored glass composition having a base glass portion comprising:	"there is provided an IR and UV absorbing soda lime silica glass of a neutral tint" (4:2-3); "base glass" (6:28)

SiO_2 65 to 80 percent by weight Na_2O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight $Al\ O_3$ 0 to 5 percent by weight K_2O 0 to 5 percent by weight	SiO_2 65 to 80 % Na_2O 10 to 20 CaO 5 to 15 MgO 0 to 10 $Al\ O_3$ 0 to 5 K_2O 0 to 5 (6:14-24)
and a colorant portion consisting essentially of:	"coloring constituents" (6:26-27)
Fe_2O_3 (total iron) 0.45 to 0.7-0 percent by Weight FeO up to 0.16 percent by weight Co_3O_4 3 to 25 PPM Se 0.5 to 10 PPM	"total iron content expressed as Fe_2O_3, ... of from 0.3 to 0.7 % by weight" (4:13-14); "preferred compositions include ... 0.45 to 0.65 % total iron (as Fe_2O_3)" (9:8-10); 0.16 wt % FeO (Example 9); "from about 3 to 25 ppm of Co_3O_4" (4:16); "0.5 to 10 parts by million (ppm) of Se" (4:15-16)
wherein	
the color of the glass is characterized by a dominant wavelength less than 560 nanometers,	"a dominant wavelength less than 560 nm" (4:7-8)
a color purity of no higher than about 8 percent,	"a color purity not greater than 6" (4:8-9)
a visible light transmission of greater than 70 percent, and	"in a 4 mm thickness, a visible light transmission of at lest 70%" (4:4-5)
a direct solar heat transmission at least 12 percentage points below the visible light transmission at a thickness of 4 millimeters.	"a direct solar heat transmission at least 12 percentage points below the visible light transmission (4:5-7)
34. The composition of claim 33 wherein the color of the glass is characterized by dominant wavelengths in the range of 494 to 56 nanometers and	Examples 9 and 10 (*see*, Table I)

a color purity of no higher than 3% at a thickness of 4 millimeters.	"color purity ... most preferably no more than 3" (4:9-10)
35. The composition as in claim 33 further including additional ultraviolet absorbing material.	 "TiO_2 may be added to the glass" (4:20)
36. A glass sheet made from the composition as recited in claim 33.	"glass sheets" (7:12)
37. A neutral gray colored glass composition having a base glass portion comprising: SiO_2 65 to 80 percent by weight Na_2O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight Al_2O_3 0 to 5 percent by weight K_2O 0 to 5 percent by weight	"neutral tint" (4:2-3); "base glass" (6:28) SiO_2 65 to 80 % Na_2O 10 to 20 CaO 5 to 15 MgO 0 to 10 Al_2O_3 0 to 5 K_2O 0 to 5 (6:14-24)
and a colorant portion consisting essentially of: Fe_2O_3 (total iron) 0.45 to 0.70 percent by weight FeO up to 0.16 percent by weight Co_3O_4 3 to 25 PPM Se 0.5 to 10 PPM	"coloring constituents" (6:26-27) "total iron content expressed as Fe_2O_3, ... of from 0.3 to 0.7 % by weight" (4:13-14); "preferred compositions include ... 0.45 to 0.65 % total iron (as Fe_2O_3)" (9:8-10); 0.16 wt % FeO (Example 9); "from about 3 to 25 ppm of Co_3O_4" (4:16); "0.5 to 10 parts by million (ppm) of Se" (4:15-16)
wherein the color of the glass is characterized by a dominant wavelength less than 560 nanometers, a color purity of no higher than 6 percent and a visible light transmission of greater than	 "a dominant wavelength less than 560 nm" (4:7-8) "a color purity not greater than 6" (4:8-9) "in a 4 mm thickness, a visible light

70 percent at a thickness of 4 millimeters.	transmission of at least 70%" (4:4-5)
38. The composition as in claim 37 wherein the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and a color purity of no higher than 3 percent at a thickness of 4 millimeters.	 Examples 9 and 10 (*see*, Table I) "color purity ... most preferably no more than 3 (4:9-10)
39. A neutral gray colored glass composition having a base glass portion comprising: SiO_2 65 to 80 percent by weight Na_2O 10 to 20 percent by weight CaO 5 to 15 percent by weight MgO 0 to 10 percent by weight Al_2O_3 0 to 5 percent by weight K_2O 0 to 5 percent by weight and a colorant portion consisting essentially of: Fe_2O_3 (total iron) greater than 0.45 up to 0.65 percent by weight FeO up to 0.16 percent by weight Co_3O_4 3 to 25 PPM Se 0.5 to 10 PPM NiO up to 50 PPM wherein the glass has a visible light transmission luminous transmittance of greater than 70 percent at a thickness of 4.0 millimeters.	"neutral tint" (4:2-3); "base glass" (6:28) SiO_2 65 to 80 % Na_2O 10 to 20 CaO 5 to 15 MgO 0 to 10 Al_2O_3 0 to 5 K_2O 0 to 5 (6:14-24) "coloring constituents" (6:26-27) "total iron content expressed as Fe_2O_3, ... of from 0.3 to 0.7 % by weight" (4:13-14); "preferred compositions include ... 0.45 to 0.65 % total iron (as Fe_2O_3)" (9:8-10); 0.16 wt % FeO (Example 9); "from about 3 to 25 ppm of Co_3O_4" (4:16); "0.5 to 10 parts by million (ppm) of Se" (4:15-16) "in a 4 mm thickness, visible light transmission of at least 70%" (4:4-5)
40. The composition as in claim 39 wherein the color of the glass is characterized by a	 Examples 9 and 10 (*see*, Table I)

dominant wavelength in the range of 494 to 560 nanometers and a color purity of no higher than 6 percent at a thickness of 4.0 millimeters.	 "a color purity ... most preferably not greater than 6" (4:8-9); 4 mm thickness" (4:4)
41. The composition of claim 39 wherein the color of the glass is characterized by a dominant wavelength in the range of 494 to 560 nanometers and a color purity of no higher than 3% at a thickness of 4.0 millimeters.	 Examples 9 and 10 (*see*, Table I) "a color purity ... most preferably no greater than 3" (4:9-10)
42. The composition as in claim 39 wherein the Fe_2O_3 concentration is from 0.51 to 0.61 weight percent.	 Examples 8 and 5 (*see*, Table I)
43. The composition as in claim 39 wherein the direct solar heat transmission is at least 12 percentage points below the visible light transmission.	 "a direct solar heat transmission at least 12 percentage points below the visible light transmission (4:5-7)
44. The composition as in claim 39 further including additional ultraviolet absorbing material.	 "TiO_2 may be added to the glass" (4:20)
45. A glass sheet made from the composition as recited in claim 33.	"glass sheets" (7:12)
46. The composition as in claim 39 wherein the Fe_2O_3 concentration is from 0.51 to 0.61 weight percent, the FeO concentration is up to 0.14 weight percent,	 Examples 8 and 5 (*see*, Table I) Examples 2, 5 and 7 (*see*, Table I)

the Co_3O_4 concentration is from 5 to 24 PPM,	Examples 6 and 8 (*see*, Table I)
the Se concentration is from 1 to 9 PPM and	Examples 8 and 3 (*see*, Table I)
the NiO concentration is 15 to 31 PPM and	Examples 3 and 8 (*see*, Table I)
further wherein	
said composition has a visible light transmission of 70 percent or greater at a thickness of 4 millimeters.	"in a 4 mm thickness, a visible light transmission of at least 70%" (4:4-5)
47. The composition as in claim 33 wherein	
the Fe_2O_3 concentration is from 0.51 to 0.61 weight percent,	Examples 8 and 5 (*see*, Table I)
the FeO concentration is up to 0.14 weight percent,	Examples 2, 5 and 7 (*see*, Table I)
the Co_3O_4 concentration is from 5 to 24 PPM and	Examples 6 and 8 (*see*, Table I
the Se concentration is from 1 to 9 PPM.	Examples 8 and 3 (*see*, Table I)

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,

John T. Callahan
Registration No. 32,607

SUGHRUE, MION, ZINN,
MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Washington, D.C. 20037-3213
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

Date: August 31, 2001

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Page 1, first paragraph:

This application is a continuation of Application No. 08/472,189 (Confirmation No. Unknown), filed June 7, 1995, which is a continuation of Application No. 08/285,652, filed August 3, 1994, which is a continuation-in-part of United States application No. 08/190,883, filed February 3, 1994, the disclosures of which are all incorporated herein by reference.

IN THE CLAIMS:

Claims 2-12 are canceled.

Claims 13-47 are added as new claims.